

Title (en)  
Door lock device for motor vehicles

Title (de)  
Kraftfahrzeugtürschloss

Title (fr)  
Serrure de porte de véhicule automobile

Publication  
**EP 1076141 B1 20050126 (EN)**

Application  
**EP 00117024 A 20000808**

Priority  
JP 22498899 A 19990809

Abstract (en)  
[origin: EP1076141A1] In a door closer device which requires at least three switches consisting of a half door detection switch, a full lock (completely closing) detection switch and a switch for detecting the return to the initial position, the number of switches can be reduced. Two cam switch operating portions are formed on a cam plate (31) fixedly secured to an output shaft (30) of a motor (29). The motor is stopped by making use of one operating portion and the motor (29) is rotated in a reverse direction by making use of the other operating portion. <IMAGE>

IPC 1-7  
**E05B 65/12**

IPC 8 full level  
**E05B 85/24** (2014.01); **E05B 81/32** (2014.01); **E05B 81/66** (2014.01)

CPC (source: EP US)  
**E05B 81/20** (2013.01 - EP US); **Y10S 292/23** (2013.01 - EP US); **Y10T 292/1047** (2015.04 - EP US); **Y10T 292/1082** (2015.04 - EP US)

Cited by  
EP2050903A3; EP2168799A3; WO2004018809A1; WO2009056120A3; US9995076B1; US8152217B2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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